

Exploring the world

→ Config Driven VI

- A configuration is sent by backend which influences the VI or devices like this.

→ Why state variable is needed?

Ans Even if all change it will get normal as variable. React doesn't changed but since so it traces such variables is no any change, things there is no be rendered so nothing will be and hence nothing will be changed on VI.

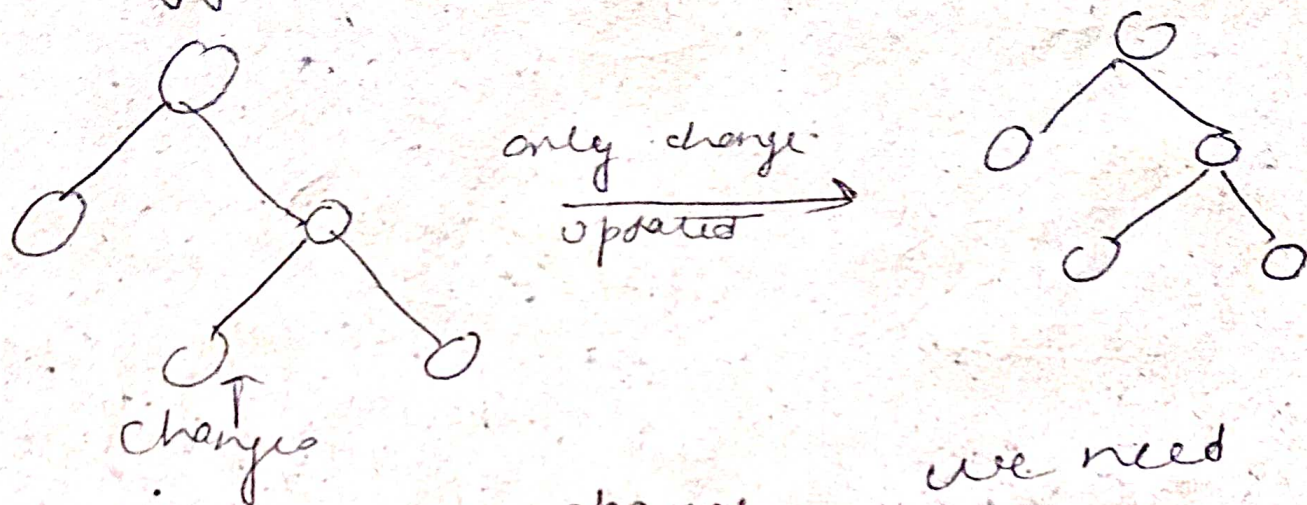
→ Abstract Syntax Tree

- Most expensive operation on VI is DOM manipulation.

→ React is fast only becz of DOM manipulation.

↓ becz of
Diff Algorithm
React Fiber
Reconciliation Algorithm

→ Any state associated with component. if state changes, whole component gets re-rendered and reconciliation process gets triggered.



→ for every UI change, we need state variables.

Now, let's explore the world of making or calling API to call the restaurants.

Industry concept
↳ microservices

Monolithic

- Every functionality will be on same project (one project)
- Even if we need to deploy the whole app we need to deploy the whole
- lot of mves still run on the format only



Microservices

UI

Backend
API

Notification

Log

authn
authz

- Everything on different port.
- ~~core~~ separation of concern
- easier to test and modify
- everything can be written in different tech stack

Q How all these are connected?

Ans : 8000 → /
: 900 → (/log)
: 8000 → /notification
different ports but same domain name

→ Here, we are building only microservices.

Q How to make API call in JavaScript?
Ans fetch > browser function (window)

Q Where should I make API call in React?
Ans As in when my page loads, call an API and fills the data

Approaches to do in React

load → API (300ms) → render Page (200ms)

①

load → timer 100ms → API 300ms → [update] 200ms

②

load → timer 100ms → API 300ms → [update] 200ms

(we are) user experience during the load are basically dipping the user's preferred way

Introducing Hook

useEffect

useEffect () → { } → callback function

Syntax

get dependency array → decides when to call useEffect, not on every change

→ Two instances where component renders: —

- 1) either state changes or
- 2) props changes.

// empty dependency array \Rightarrow it will be called only once after initial render.

// dependency array [searched] \Rightarrow once after initial render + everytime dependency changes.

Q can we have multiple use effects?

→ JSON objects.

• Call the suggest public API.

Q Critical Rendering

→ Handling Errors

• Making user experience good

↳ Introduce shimmer UI

↓
skeleton of the page UI

→ Conditional Rendering

→ Early Return

Difference b/w JS expression

One can run only JS expressions
inside JSX not statements.

→ making a login / logout button
Authenticated user